	Application No.	Applicant(s)	$\overline{}$
	Application No.		
Notice of Allowability	10/659,044	KIM ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Thao X. Le	2814	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not include nication will be mailed in due	ded e course. THIS
1. This communication is responsive to <u>06/10/05</u> .			
2. X The allowed claim(s) is/are <u>1-9,11,12 and 29-45</u> .	•		
3. \boxtimes The drawings filed on <u>11 April 2005</u> are accepted by the E	xaminer.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	n No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u> .		
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet sheet as such in the sheet sheet.	1.84(c)) should be written on th the header according to 37 CF	e drawings in the front (not th R 1.121(d).	e back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. LOGICAL MATERIAL.	Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Su Paper No./I 08), 7. Examiner's	ormal Patent Application (PT ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for All	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with the Applicant' attorney, Mr. Carl Kukkonen, on 11 July 2005. The application has been amended as follows:

- In the Claim
 - i. Claim 38 line 3: after "first" insert ----- unitary ----
 - ii. Claim 38 line 10: after "second" insert ---- unitary ----
- 2. The following is an examiner's statement of reasons for allowance:
 - a. Claims 1-9, 11-12, 29, 30-37 and 43-45 are allowed because the prior art of record neither anticipated nor rendered obvious all the limitations of the base claims 1 and 30 including a unitary first metal layer, unitary second metal layer over the first metal layer the second metal layer being coupled to the first bump, a third bump and the first metal layer, the second metal layer being adapted to transfer current from the first and third bumps to the first metal layer.
 - b. Claims 38-42 are allowed because the prior art of record neither anticipated nor rendered obvious all the limitations of the base claim 38 including a unitary first layer means, second unitary layer means over and orthogonal to

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the first layer means, the second layer means layer being coupled to the first connection means, a third connection means and the first layer means, the second layer means being adapted to transfer current from the first and third connection means to the first layer means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao X. Le whose telephone number is (571) 272-1708. The examiner can normally be reached on M-F from 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on (571) 272 -1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao X. Le 11 July 2005

> LONG PHAM PRIMARY EXAMINER